MANITOBA VITAL STATISTICS
1990: A REGIONAL ANALYSIS

MBS 91–8

June 1991

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Manitoba
Bureau of
Statistics

EXECUTIVE SUMMARY

LIVE BIRTHS

There were 17,296 live births in Manitoba during 1990. Of these, 12,185 (70.4%) occurred in Winnipeg. The Winnipeg region had the highest birth rate with 20.0 births per thousand population, followed by the North with a birth rate of 16.0. The lowest birth rates were in the Interlake and Southeast regions, with 4.3 and 4.7 respectively. For Manitoba, the birth rate was 15.9 births per thousand population.

There were 8,425 (48.7%) female births and 8,871 (51.3%) male births. For every thousand females in the population there were 15.2 female births, compared to 16.5 male births for every thousand males in the population. Female births outnumbered male births in the South Central, North Central and North regions.

DEATHS

There were 8,851 deaths in Manitoba during 1990. There were 5,314 (60.0%) in Winnipeg alone. The regions with the highest death rates were the Parklands and the Southwest regions with 10.3 and 9.9 deaths per thousand population. The North region had the lowest death rate with 3.9, followed by the Southeast with a rate of 5.1. The death rate for Manitoba was 8.1.

There were 4,154 (46.9%) female deaths, compared to 4,697 (53.1%) male deaths. The male death rate was higher than the female death rate in all eight Economic Regions. At the Manitoba level, the male death rate was 8.7, while the female death rate was 7.5.

STILLBIRTHS

The number of stillbirths in Manitoba in 1990 was 113. Of these stillbirths, 81 (71.7%) occurred in Winnipeg. The Southwest had the second highest number with 14 (12.4%) stillbirths, followed by the North with 9 (8.0%). No stillbirths were recorded in the Southeast while there was only 1 stillbirth in the Parklands region and 2 in the South Central region.

The rate of female stillbirth was 6.5 per thousand female live births as was the rate of male stillbirth at 6.5 per thousand male live births.

NATURAL INCREASE

In 1990, Manitoba had a net gain of 8,445 persons due to natural increase, for a rate of natural increase of 7.7 persons per thousand. The Interlake and Southeast regions, with rates of natural decrease of 2.9 and 0.3 persons per thousand, were the only regions to record net losses during 1990. The North region had the greatest rate of natural increase, that being 12.1.

The female rate of natural increase was greater than the male rate for seven of Manitoba's eight economic regions. Rates at the Manitoba level were 7.7 females per thousand and 7.8 males per thousand.

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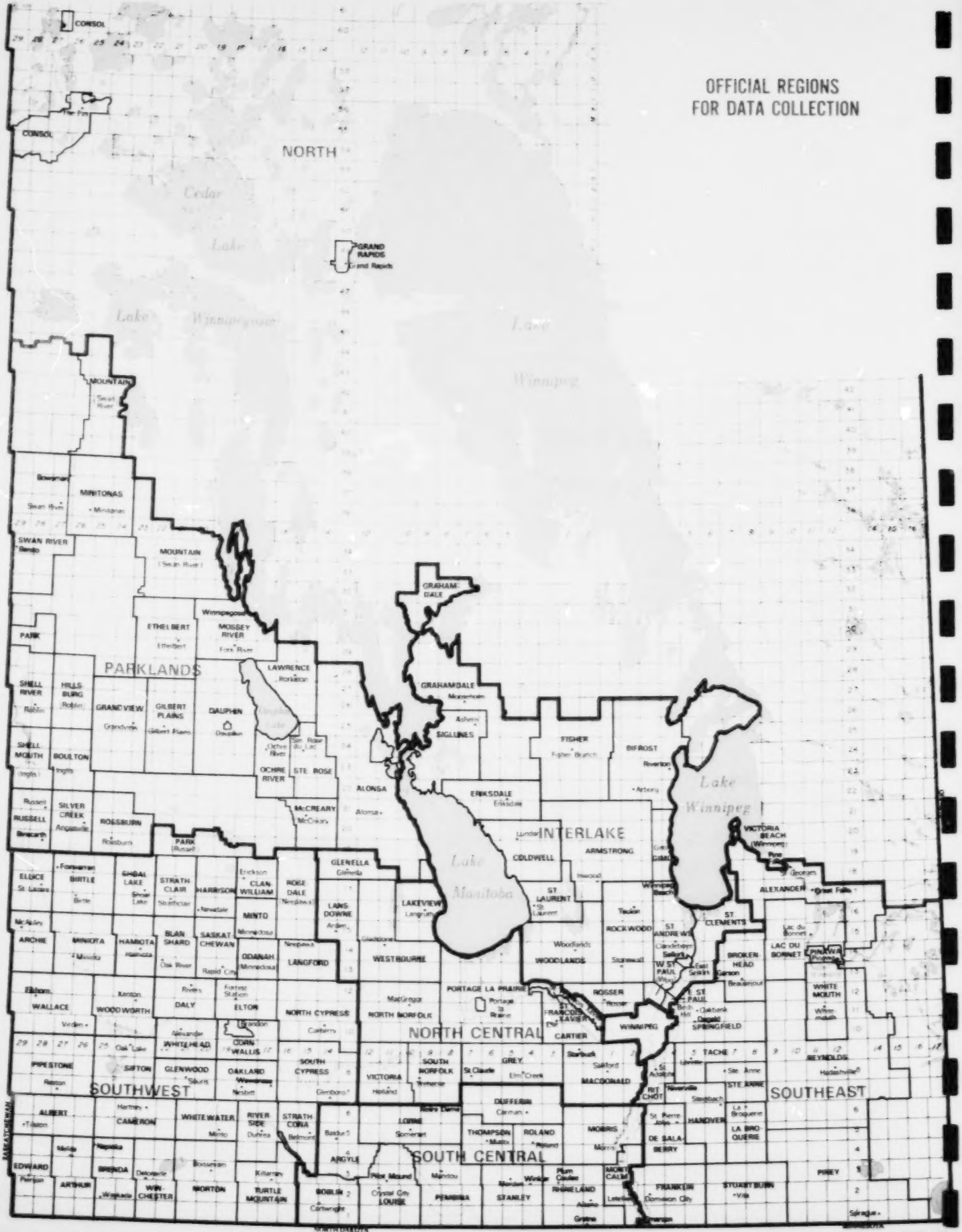
OFFICIAL REGIONS
FOR DATA COLLECTION
NORTH
PARKLANDS
INTERLAKE
NORTH CENTRAL
SOUTHWEST
SOUTH CENTRAL
SOUTHEAST
CONSOL
GRAND RAPIDS
MOUNTAIN
MINITONAS
SWAN RIVER
MOSSEY RIVER
ETHELBERT
PARK
SHELL RIVER
HILLSBURG
GRANDVIEW
GILBERT PLAINS
DAUPHIN
SHELL MOUTH
BOULTON
OCHRE RIVER
STE ROSE
LAWRENCE
RUSSELL
SILVER CREEK
ROSSBURN
McCREARY
GRAHAM DALE
GRANDALE
SIGLUNES
ALONSA
ERIKSDALE
FISHER
BIFROST
COLDWELL
ARMSTRONG
ST LAURENT
VICTORIA BEACH
ELDER
STRATH CLAIR
HARRISON
CLAN WILLIAM
ROSE DALE
GLENELLA
LANSDOWNE
LAKEVIEW
MINTO
ODANAH
LANGFORD
WESTBOURNE
ROCKWOOD
ST ANDREWS
ST CLEMENTS
ALEXANDER
ARCHIE
MINIOTA
HAMIOTA
BLANSHARD
SASKATCHEWAN
WOODLANDS
BROKEN HEAD
LAC DU BONNET
WALLACE
WOODWORTH
DALY
ELTON
NORTH CYPRESS
MacGREGOR
NORTH NORFOLK
PORTAGE LA PRAIRIE
ROSSER
ST FRANCOIS XAVIER
CARTIER
WINNIPEG
ST PAUL
SPRINGFIELD
WHITE MOUTH
PIPESTONE
SIFTON
GLENWOOD
OAKLAND
CORNWALLIS
SOUTH CYPRESS
VICTORIA
SOUTH NORFOLK
GREY
MACDONALD
TACHE
REYNOLDS
STE ANNE
ALBERT
CAMERON
WHITEWATER
RIVERSIDE
STRATHCONA
LORNE
DUFFERIN
THOMPSON
ROLAND
MORRIS
HANOVER
DE SALABERRY
LA BROQUERIE
EDWARD
BRENDA
WINCHESTER
NORTON
TURTLE MOUNTAIN
ARGYLE
LOUISE
PEMBINA
STANLEY
RHINELAND
MORTON
FRANKLIN
STURGEON BURN
PINEY
Lake Winnipeg
Lake Manitoba
Cartography by: Surveys and Mapping Branch, Manitoba-1984
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INTRODUCTION

This report presents data on the vital statistics (births, deaths, and stillbirths) in the year 1990 for the province of Manitoba Historical data from 1984 to 1988 can be found in the Manitoba Bureau of Statistics report "MANITOBA VITAL STATISTICS : AN HISTORICAL REVIEW 1984-88 (MBS 89-5). The charts and tables in this report were constructed using data that was reported by the Office of Vital Statistics, Department of Family Services.

This data refers to events that occurred in Manitoba and involved Manitobans by place of occurrence. Where all characteristics of an event have not been recorded, the vital event has been omitted from that statistical table.

The population figures used are from the Statistics Canada 1990 postcensal annual estimates of population, rounded to the nearest hundred. Where population estimates were not available, population projections from the Manitoba Bureau of Statistics have been used to derive the approximate distribution of the population by age and sex. The Statistics Canada estimate was then broken down according to this distribution.

Manitoba is divided into 8 Official Regions for Data Collection (also known as Economic Regions). The following table illustrates the association between data collection region, economic region, and census division.

OFFICIAL REGION FOR DATA COLLECTION	ECONOMIC REGION	CENSUS DIVISION
Southeast	60	1, 2, 12
South Central	61	3, 4
Southwest	62	5, 6, 7, 15
North Central	63	8, 9, 10
Winnipeg	64	11
Interlake	65	13, 14, 18
Parklands	66	16, 17, 20
North	67	19, 21, 22, 23

The map on the opposite page also illustrates these relationships.

Further information and custom tabulations on the 1990 vital statistics can be obtained from the Manitoba Bureau of Statistics by contacting David Greenwood at (204) 945-2989.

TABLE VIII presents Manitoba deaths during 1990 by cause of death. The causes of death are coded according to the "Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death", based on the Ninth Revision Conference, 1975.

The following lists the major causes of death and their three digit codes:

CANCER (140 - 208)

DIABETES (250)

NONPSYCHOTIC MENTAL DISORDERS (300 - 316)

HEREDITARY AND DEGENERATIVE CENTRAL NERVOUS SYSTEM (330 - 337)

OTHER CENTRAL NERVOUS SYSTEM (340 - 349)

HYPERTENSIVE DISEASE (401 - 405)

HEART DISEASE (410 - 429)

CEREBROVASCULAR DISEASE (430 - 438)

DISEASES OF ARTERIES, ARTERIOLES, CAPILLARIES (440 - 448)

PNEUMONIA (480 - 486)

CHRONIC OBSTRUCTIVE PULMONARY DISEASE (490 - 496)

OTHER RESPIRATORY DISEASES (510 - 519)

OESOPHAGUS, STOMACH, DUODENUM DISEASE (530 - 537)

OTHER INTESTINAL AND PERITONIUM DISEASES (560 - 569)

OTHER DISEASES OF THE DIGESTIVE SYSTEM (570 - 579)

NEPHRITIS, NEPHROTIC SYNDROME, NEPHROSIS (580 - 589)

CONDITIONS ORIGINATING IN PERINATAL (760 - 779)

ILL-DEFINED AND UNKNOWN CAUSES (797 - 799)

ACCIDENTS (800 - 949)

SUICIDE (950 - 959)

OTHER CAUSES (001 - 139, 210 - 246, 251 - 299, 317 - 326, 350 - 398, 451 - 478, 487, 500 - 508, 520 - 529, 540 - 558, 590 - 759, 780 - 796, 960 - 999)

TABLE I MANITOBA 1990 VITAL STATISTICS BY ECONOMIC REGION BOTH SEXES

REGION	POPULATION IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	78.0	370	0	395	-25	4.7	0.0	5.1	-0.3
SOUTH CENTRAL	50.5	618	2	468	150	12.2	3.2	9.3	3.0
SOUTHWEST	106.6	1,540	14	1,053	487	14.4	9.1	9.9	4.6
NORTH CENTRAL	46.3	448	3	279	169	9.7	6.7	6.0	3.7
WINNIPEG	608.6	12,185	81	5,314	6,871	20.0	6.6	8.7	11.3
INTERLAKE	73.6	315	3	532	-217	4.3	9.5	7.2	-2.9
PARKLANDS	49.2	590	1	508	82	12.0	1.7	10.3	1.7
NORTH	77.0	1,230	9	302	928	16.0	7.3	3.9	12.1
MANITOBA	1,089.9	17,296	113	8,851	8,445	15.9	6.5	8.1	7.7

NOTE: RATES FOR LIVE BIRTHS, DEATHS, AND NATURAL INCREASE ARE PER 1000 POPULATION.
RATE FOR STILLBIRTHS IS PER 1000 LIVE BIRTHS.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES
STATISTICS CANADA

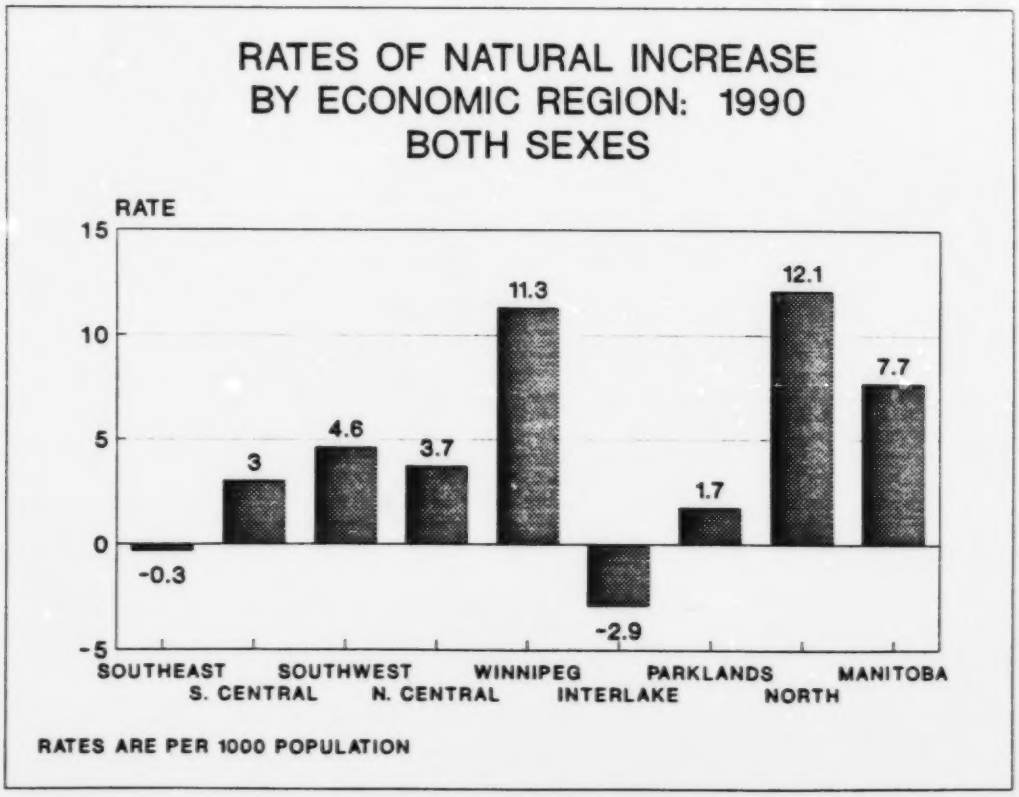


TABLE II MANITOBA 1990 VITAL STATISTICS BY ECONOMIC REGION FEMALES

REGION	POPULATION IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	38.3	181	0	166	15	4.7	0.0	4.3	0.4
SOUTH CENTRAL	25.4	314	1	213	101	12.4	3.2	8.4	4.0
SOUTHWEST	53.9	745	6	491	254	13.8	8.1	9.1	4.7
NORTH CENTRAL	23.0	250	0	129	121	10.9	0.0	5.6	5.3
WINNIPEG	313.9	5,870	42	2,584	3,286	18.7	7.2	8.2	10.5
INTERLAKE	36.1	156	1	248	-92	4.3	6.4	6.9	-2.5
PARKLANDS	24.5	286	0	222	64	11.7	0.0	9.1	2.6
NORTH	37.4	623	5	101	522	16.7	8.0	2.7	14.0
MANITOBA	552.6	8,425	55	4,154	4,271	15.2	6.5	7.5	7.7

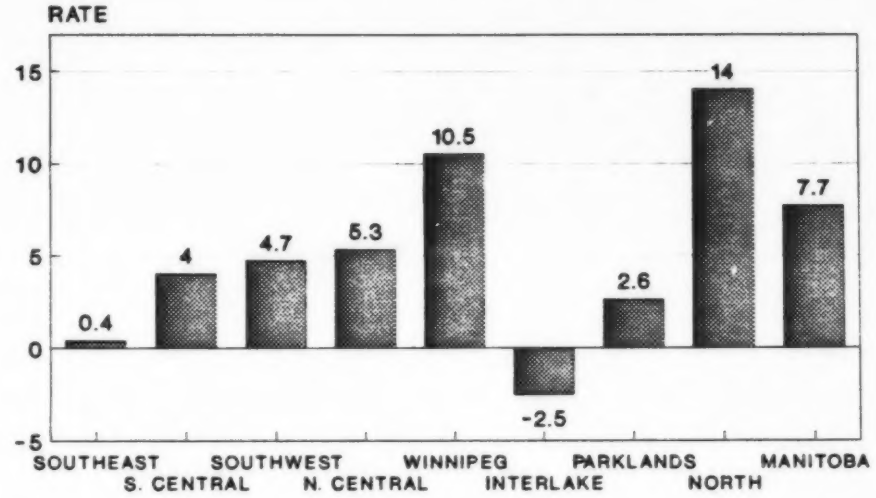
TABLE III MANITOBA 1990 VITAL STATISTICS BY ECONOMIC REGION MALES

REGION	POPULATION IN 000'S (JUNE 1)	LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE	RATES			
						LIVE BIRTHS	STILL BIRTHS	DEATHS	NATURAL INCREASE
SOUTHEAST	39.7	189	0	229	-40	4.8	0.0	5.8	-1.0
SOUTH CENTRAL	25.1	304	1	255	49	12.1	3.3	10.2	2.0
SOUTHWEST	52.7	795	8	562	233	15.1	10.1	10.7	4.4
NORTH CENTRAL	23.3	198	3	150	48	8.5	15.2	6.4	2.1
WINNIPEG	294.7	6,315	39	2,730	3,585	21.4	6.2	9.3	12.2
INTERLAKE	37.5	159	2	284	-125	4.2	12.6	7.6	-3.3
PARKLANDS	24.7	304	1	286	18	12.3	3.3	11.6	0.7
NORTH	39.6	607	4	201	406	15.3	6.6	5.1	10.3
MANITOBA	537.4	8,871	58	4,697	4,174	16.5	6.5	8.7	7.8

NOTE: RATES FOR LIVE BIRTHS, DEATHS, AND NATURAL INCREASE ARE PER 1000 POPUALTION.
RATE FOR STILLBIRTHS IS PER 1000 LIVE BIRTHS.

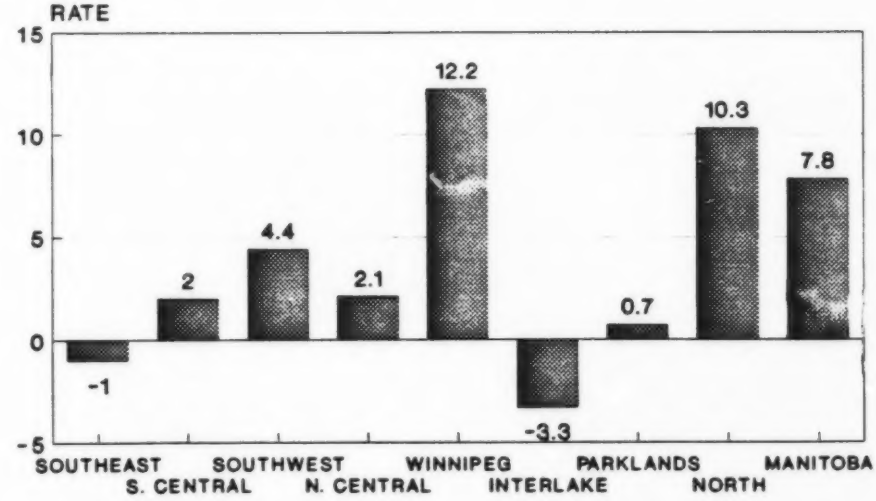
DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES
MANITOBA BUREAU OF STATISTICS

RATES OF NATURAL INCREASE BY REGION: 1990 FEMALE



RATES ARE PER 1000 POPULATION

RATES OF NATURAL INCREASE BY REGION: 1990 MALE



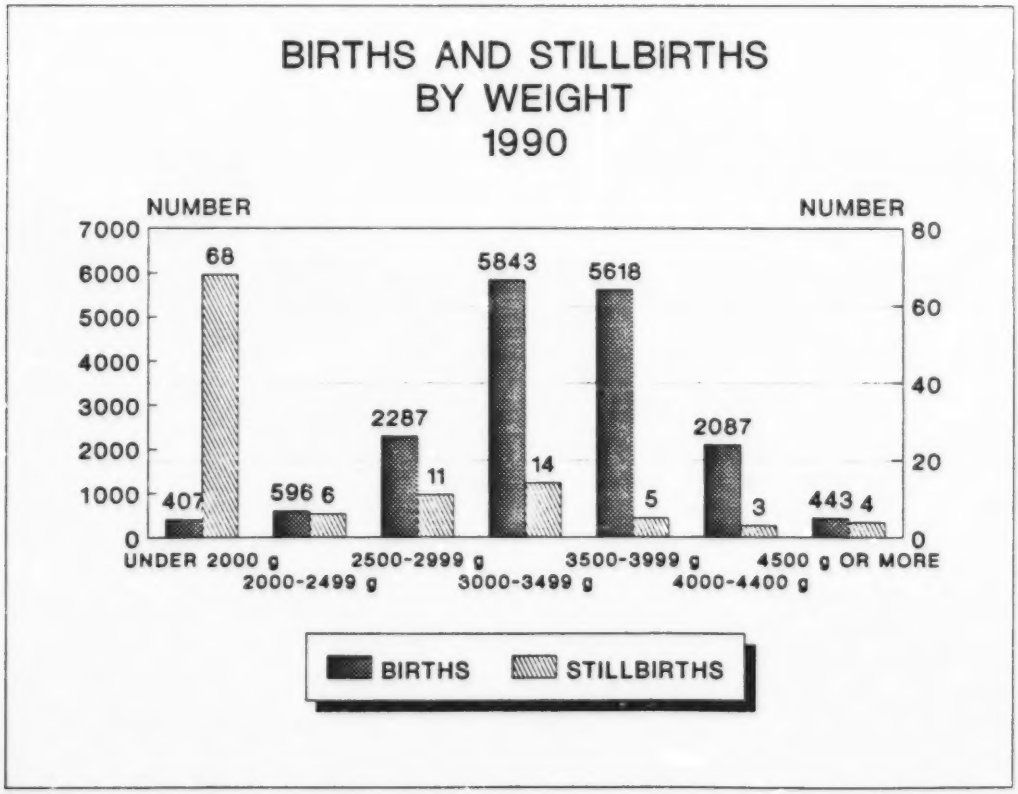
RATES ARE PER 1000 POPULATION

TABLE IV MANITOBA 1990 BIRTHS AND STILLBIRTHS BY WEIGHT

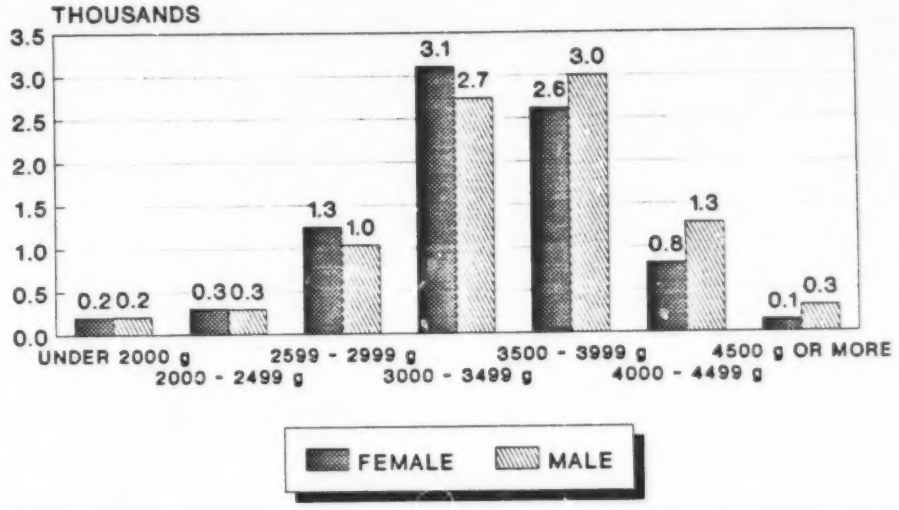
WEIGHT	BOTH SEXES			FEMALES			MALES		
	LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE
UNDER 500 g	65	18	276.9	25	6	240.0	40	12	300.0
500 - 999 g	61	26	426.2	36	12	333.3	25	14	560.0
1000- 1499 g	99	13	131.3	44	6	136.4	55	7	127.3
1500-1999 g	182	11	60.4	94	7	74.5	88	4	45.5
2000-2499 g	596	6	10.1	302	2	6.6	294	4	13.6
2500-2999 g	2,287	11	4.8	1,251	9	7.2	1,036	2	1.9
3000-3499 g	5,843	14	2.4	3,103	7	2.3	2,740	7	2.6
3500-3999 g	5,618	5	0.9	2,619	0	0.0	2,999	5	1.7
4000-4499 g	2,087	3	1.4	806	2	2.5	1,281	1	0.8
4500-4999 g	397	1	2.5	125	1	8.0	272	0	0.0
5000-5499 g	38	2	52.6	10	0	0.0	28	2	71.4
5500-5999 g	2	0	0.0	0	0	n/a	2	0	0.0
6000-6499 g	1	1	1,000.0	0	1	n/a	1	0	0.0
OVER 6500 g	5	0	0.0	1	0	0.0	4	0	0.0
UNKNOWN	15	2	133.3	9	2	222.2	6	0	0.0
TOTALS	17,296	113	6.5	8,425	55	6.5	8,871	58	6.5

NOTE: STILLBIRTH RATE IS PER 1000 LIVE BIRTHS.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES



MANITOBA LIVE BIRTHS
BY WEIGHT AND SEX
1990



MANITOBA STILLBIRTHS
BY WEIGHT AND SEX
1990

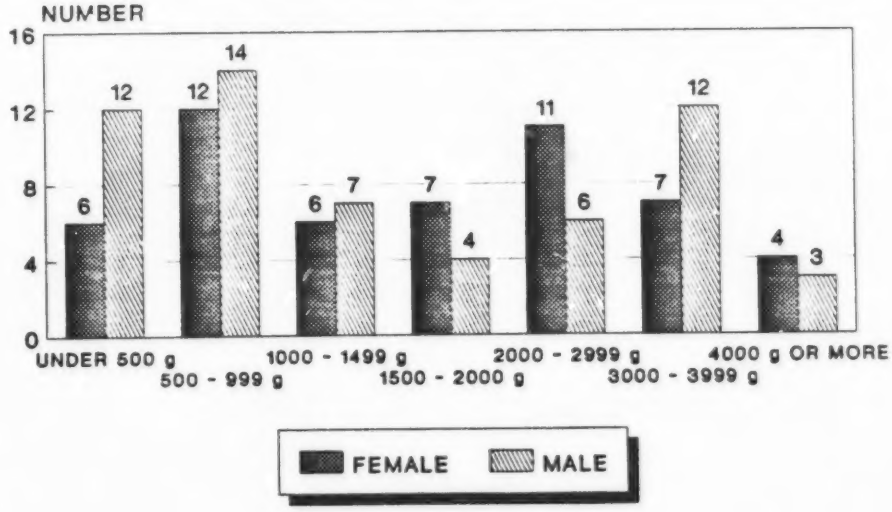
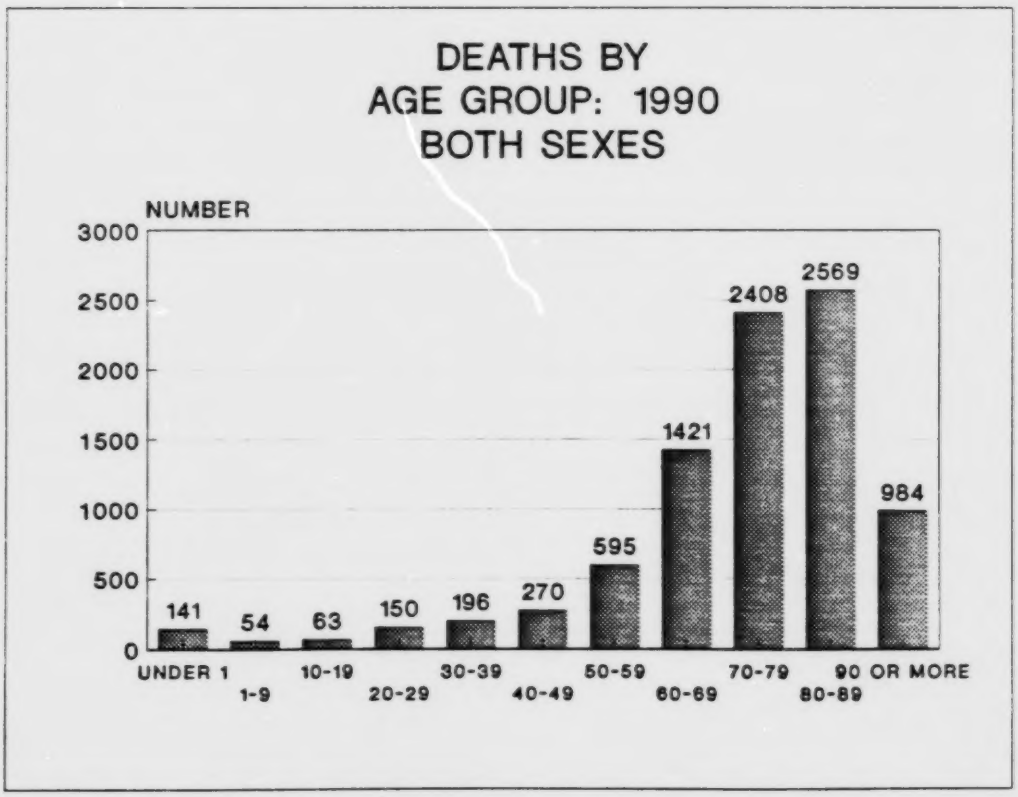


TABLE V MANITOBA 1990 DEATHS BY AGE GROUP AND SEX

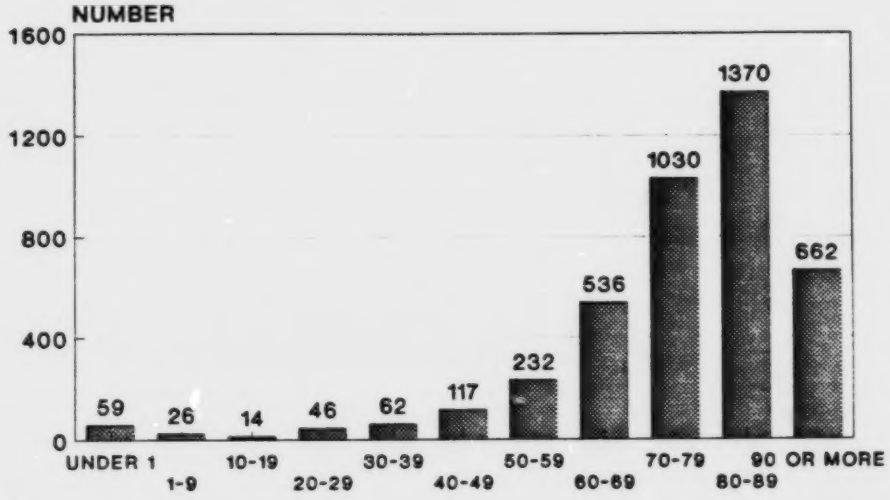
AGE IN YEARS	BOTH SEXES POPULATION IN 000'S	BOTH SEXES DEATHS	BOTH SEXES DEATH RATE	FEMALES POPULATION IN 000'S	FEMALES DEATHS	FEMALES DEATH RATE	MALES POPULATION IN 000'S	MALES DEATHS	MALES DEATH RATE
UNDER 1	17.2	141	8.2	8.4	59	7.0	8.8	82	9.3
1 - 4	66.9	34	0.5	32.6	14	0.4	34.2	20	0.6
5 - 9	79.2	20	0.3	38.4	12	0.3	40.7	8	0.2
10-14	77.0	12	0.2	37.7	2	0.1	39.3	10	0.3
15-19	80.4	51	0.6	39.1	12	0.3	41.3	39	0.9
20-24	82.6	58	0.7	40.2	14	0.3	42.3	44	1.0
25-29	96.0	92	1.0	47.7	32	0.7	48.4	60	1.2
30-34	91.9	87	0.9	45.5	27	0.6	46.4	60	1.3
35-39	83.6	109	1.3	42.1	35	0.8	41.5	74	1.8
40-44	73.6	105	1.4	36.9	39	1.1	36.7	66	1.8
45-49	56.8	165	2.9	28.4	78	2.7	28.4	87	3.1
50-54	48.0	225	4.7	24.2	102	4.2	23.9	123	5.1
55-59	46.5	370	8.0	23.5	130	5.5	23.0	240	10.4
60-64	46.2	554	12.0	23.9	204	8.5	22.3	350	15.7
65-69	45.2	867	19.2	24.8	332	13.4	20.4	535	26.2
70-74	36.2	1,053	29.1	20.3	428	21.1	15.9	625	39.3
75-79	29.5	1,355	45.9	17.3	602	34.8	12.2	753	61.7
80-84	18.4	1,406	76.4	11.4	716	62.8	7.0	690	98.6
85-89	9.8	1,163	118.7	6.5	654	100.6	3.4	509	149.7
90 & OVER	4.7	984	209.4	3.5	662	189.1	1.2	322	268.3
TOTALS	1,089.9	8,851	8.1	552.6	4,154	7.5	537.4	4,697	8.7

NOTE: DEATH RATE IS DEATHS PER 1000 POPULATION.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES
STATISTICS CANADA



DEATHS BY AGE GROUP: 1990 FEMALES



DEATHS BY AGE GROUP: 1990 MALES

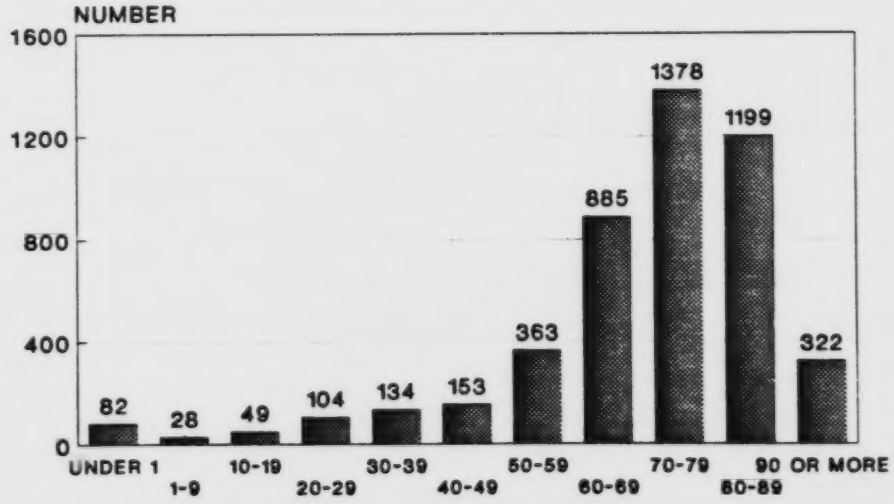
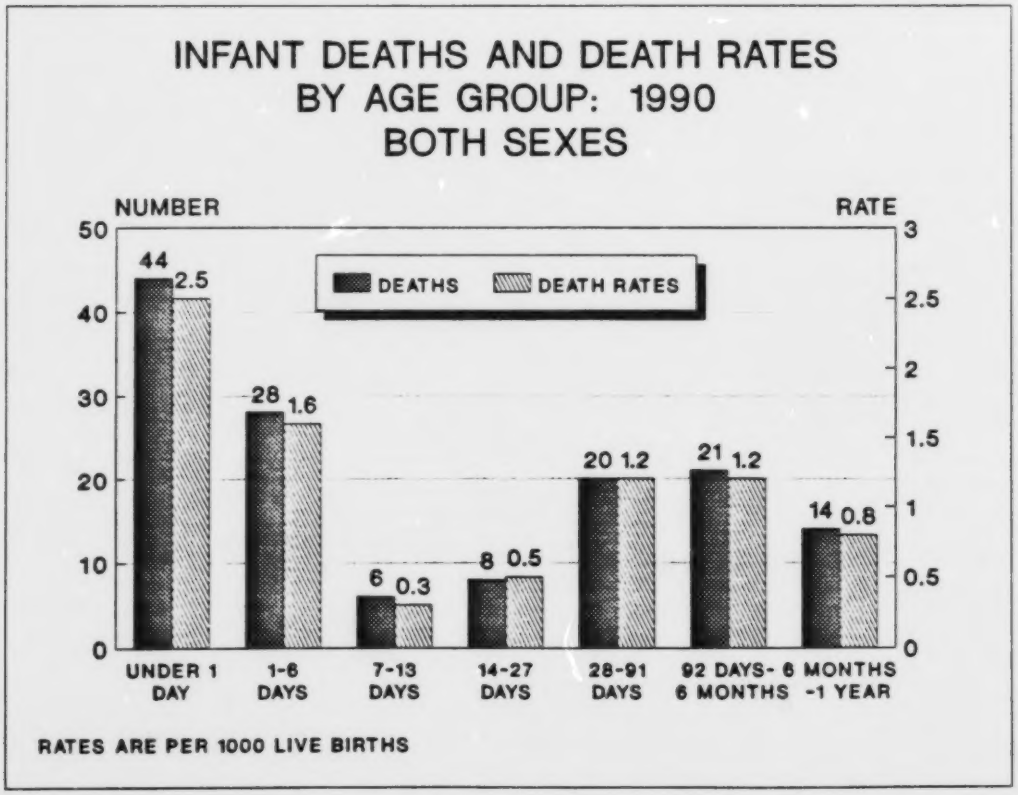


TABLE VI MANITOBA 1990 INFANT DEATHS BY AGE

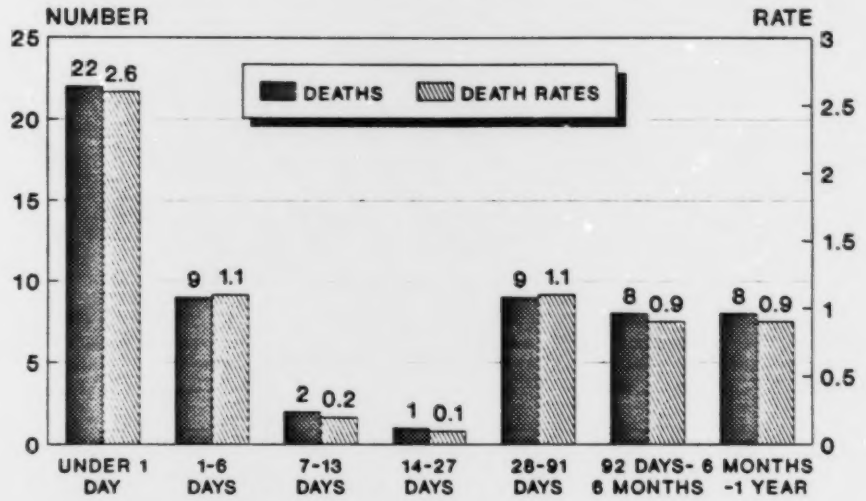
AGE	BOTH SEXES		FEMALES		MALES	
	DEATHS	DEATH RATE	DEATHS	DEATH RATE	DEATHS	DEATH RATE
UNDER 1 DAY	44	2.5	22	2.6	22	2.5
1 - 6 DAYS	28	1.6	9	1.1	19	2.1
7 - 13 DAYS	6	0.3	2	0.2	4	0.5
14 - 27 DAYS	8	0.5	1	0.1	7	0.8
28 - 91 DAYS	20	1.2	9	1.1	11	1.2
92 DAYS - 6 MONTHS	21	1.2	8	0.9	13	1.5
6 MONTHS - 1 YEAR	14	0.8	8	0.9	6	0.7
NEONATAL	86	5.0	34	4.0	52	5.9
POST-NEONATAL	55	3.2	25	3.0	30	3.4
INFANT	141	8.2	59	7.0	82	9.2
PERINATAL	185	10.6	86	10.1	99	11.1

NOTE: INFANT DEATH (UNDER 1 YEAR) RATES ARE PER 1000 LIVE BIRTHS.
PERINATAL DEATH RATES ARE PER 1000 TOTAL BIRTHS.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

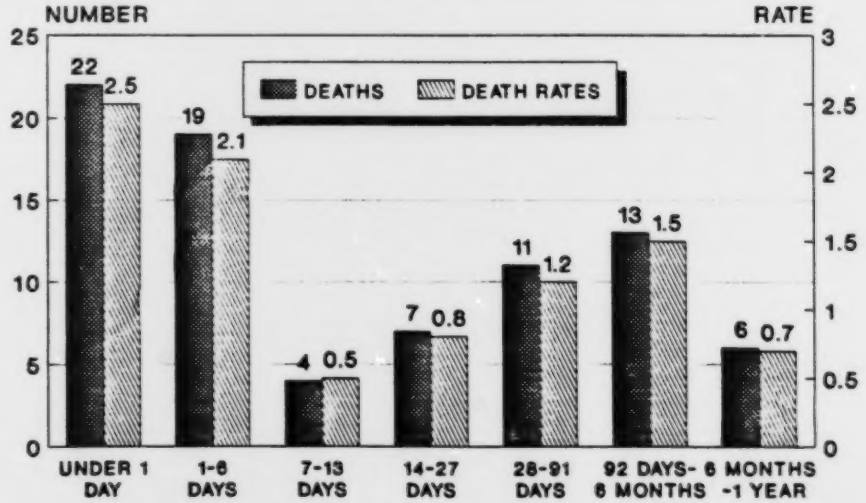


INFANT DEATHS AND DEATH RATES BY AGE GROUP: 1990 FEMALES



RATES ARE PER 1000 LIVE BIRTHS

INFANT DEATHS AND DEATH RATES BY AGE GROUP: 1990 MALES



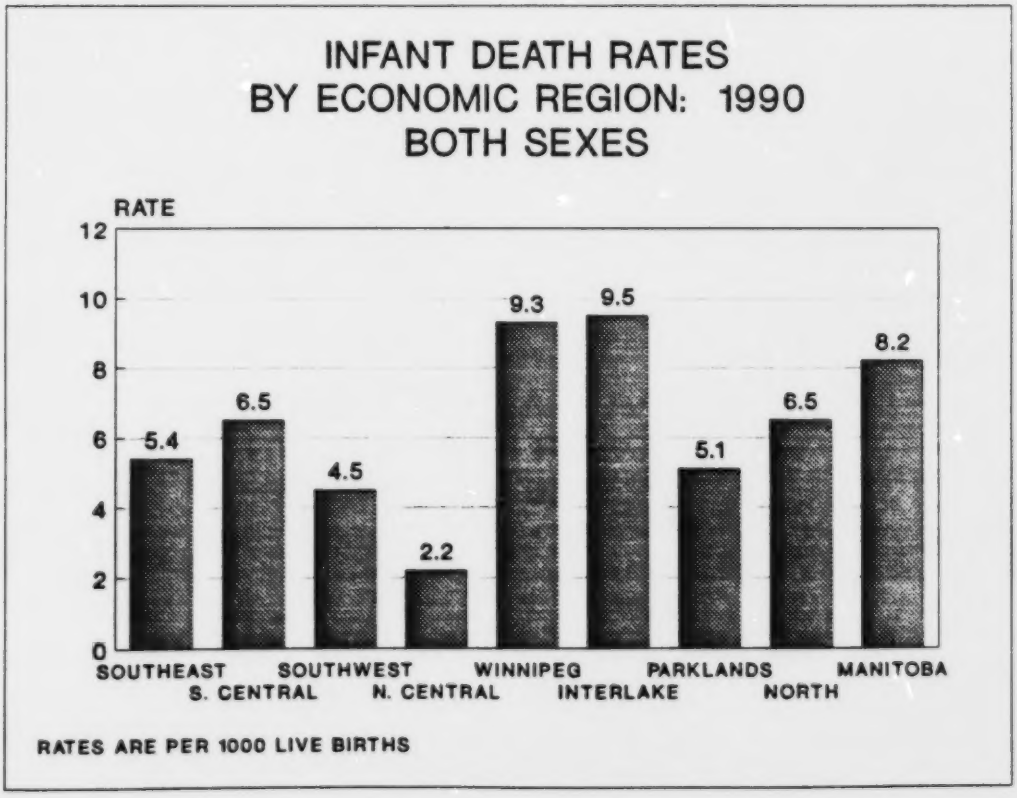
RATES ARE PER 1000 LIVE BIRTHS

TABLE VII MANITOBA 1990 INFANT DEATHS BY TYPE AND ECONOMIC REGION BOTH SEXES

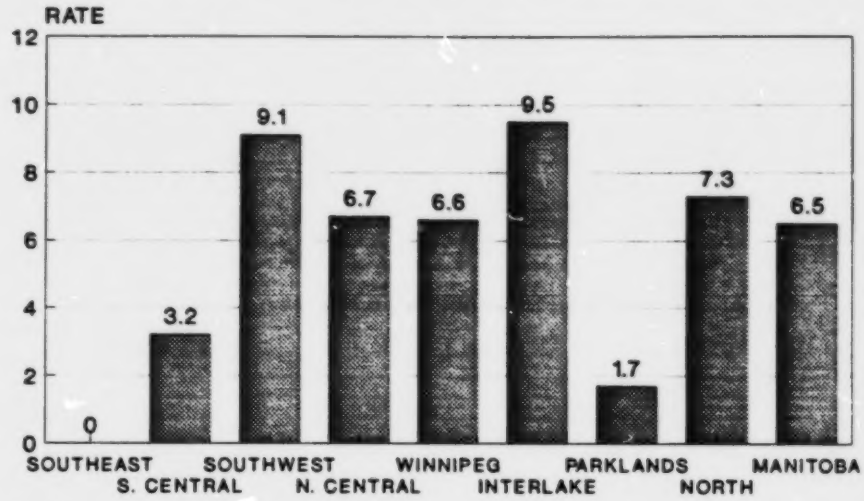
	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
TYPE									
INFANT	2	4	7	1	113	3	3	8	141
NEONATAL	0	1	6	0	76	1	2	0	86
POST-NEONATAL	2	3	1	1	37	2	1	8	55
STILLBIRTHS	0	2	14	3	81	3	1	9	113
PERINATAL	0	2	16	3	149	3	3	9	185
RATE (per 1,000 live births)									
INFANT	5.4	6.5	4.5	2.2	9.3	9.5	5.1	6.5	8.2
STILLBIRTHS	0.0	3.2	9.1	6.7	6.6	9.5	1.7	7.3	6.5
PERINATAL (per 1,000 total births)	0.0	3.2	10.3	6.7	12.1	9.4	5.1	7.3	10.6

NOTE: INFANT DEATH (UNDER 1 YEAR) RATES ARE PER 1000 LIVE BIRTHS.
PERINATAL DEATH RATES ARE PER 1000 TOTAL BIRTHS.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

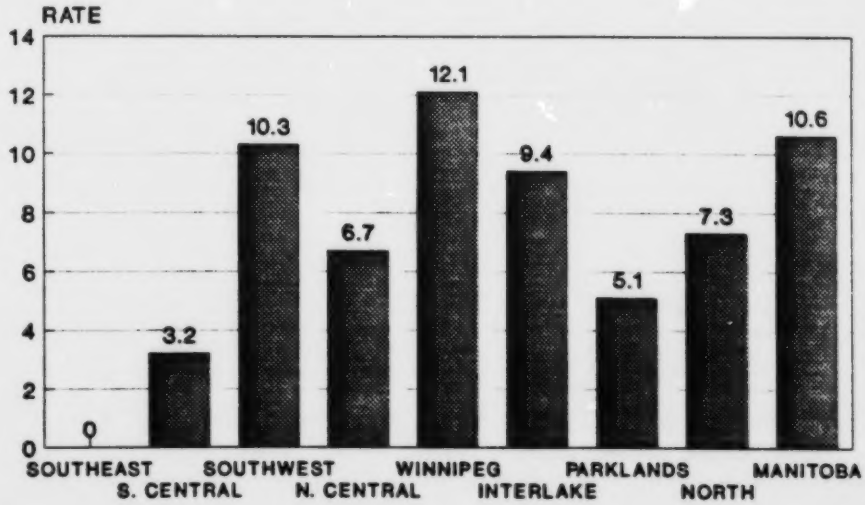


STILLBIRTH RATES BY ECONOMIC REGION: 1990 BOTH SEXES



RATES ARE PER 1000 LIVE BIRTHS

PERINATAL RATES BY ECONOMIC REGION: 1990 BOTH SEXES

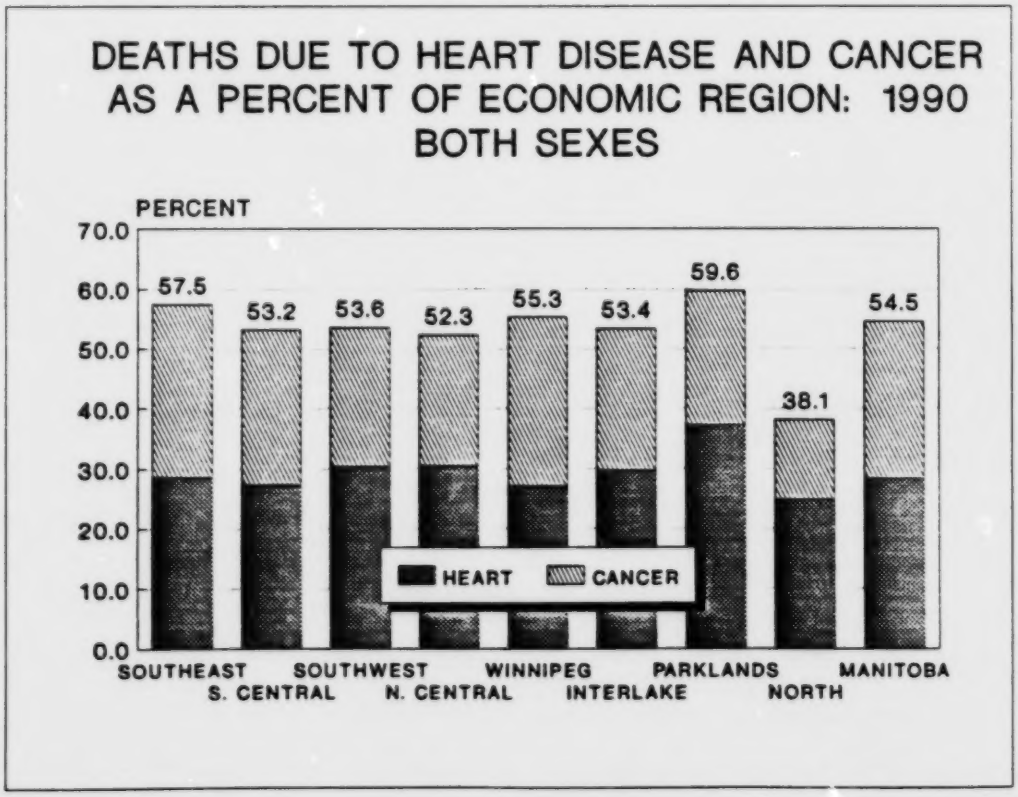


RATES ARE PER 1000 TOTAL BIRTHS

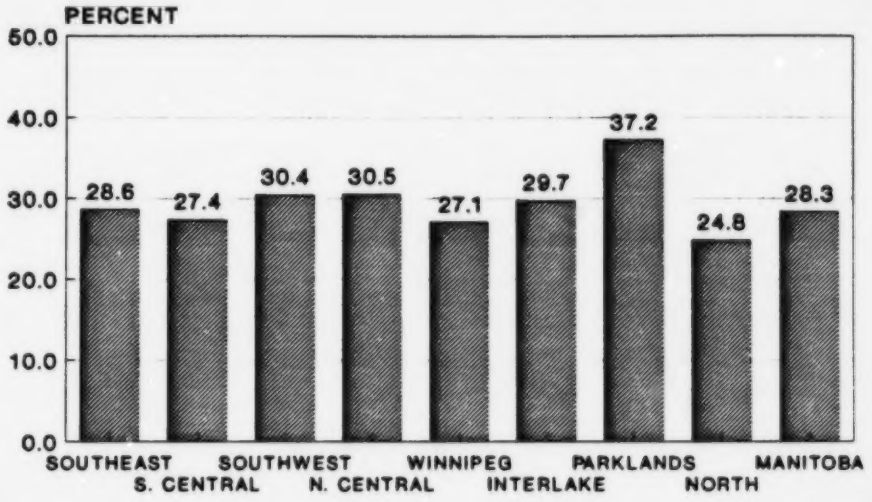
TABLE VIII MANITOBA 1990 DEATHS BY CAUSE OF DEATH AND ECONOMIC REGION BOTH SEXES

	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
HEART DISEASE	113	128	320	85	1,438	158	189	75	2,506
CANCER	114	121	244	61	1,499	126	114	40	2,319
CEREBROVASCULAR DISEASE	35	46	80	17	387	22	50	19	656
PNEUMONIA	23	18	54	13	179	16	24	13	340
ACCIDENTS	19	12	55	10	158	22	21	38	335
CHRONIC OBSTRUCTIVE PULMONARY DISEASE	6	15	48	20	166	26	17	9	307
DISEASES OF ARTERIES, ARTERIOLES, CAPILLARIES	10	12	21	14	137	17	8	9	228
DIABETES	8	9	17	5	92	14	5	6	156
OTHER DISEASES OF THE DIGESTIVE SYSTEM	4	8	12	6	98	9	5	5	147
SUICIDE	11	6	8	4	88	6	5	8	136
HEREDITARY AND DEGENERATIVE CENTRAL NERVOUS SYSTEM	3	11	23	6	68	12	7	3	133
NEPHRITIS, NEPHROTIC SYNDROME, NEPHROSIS	4	3	13	7	54	8	11	4	104
HYPERTENSIVE DISEASE	2	4	11	1	35	1	7	3	64
NONPSYCHOTIC MENTAL DISORDERS	1	6	5	2	29	3	3	7	56
OTHER INTESTINAL AND PERITONIUM DISEASES	3	2	11	1	32	5	1	0	55
OTHER RESPIRATORY DISEASES	1	3	9	1	34	2	4	0	54
OESOPHAGUS, STOMACH, DUODENUM DISEASE	3	2	10	1	25	1	7	1	50
OTHER CENTRAL NERVOUS SYSTEM	2	4	5	1	28	5	2	0	47
CONDITIONS ORIGINATING IN PERINATAL	0	0	2	0	41	0	3	0	46
ILL-DEFINED AND UNKNOWN CAUSES	14	18	35	13	309	52	5	30	476
OTHER CAUSES	19	40	70	11	417	27	20	32	636
TOTAL	395	468	1,053	279	5,314	532	508	302	8,851

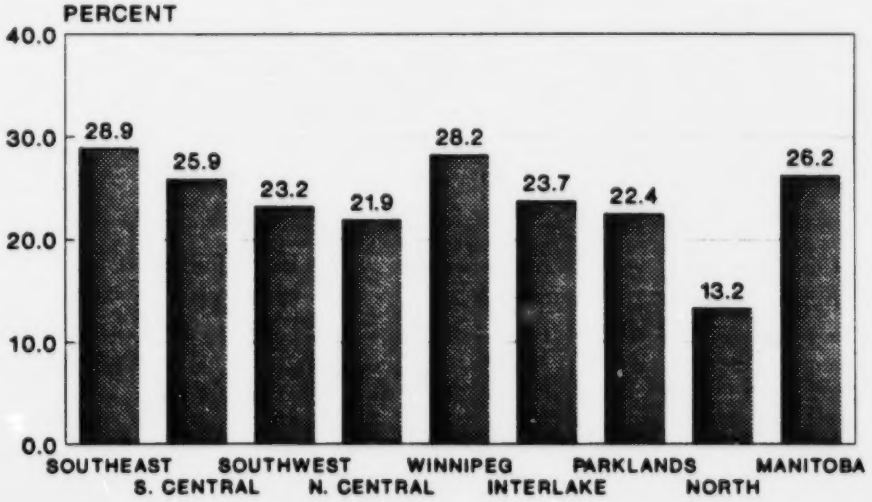
DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES



DEATHS DUE TO HEART DISEASE AS A PERCENT OF ECONOMIC REGION: 1990 BOTH SEXES



DEATHS DUE TO CANCER AS A PERCENT OF ECONOMIC REGION: 1990 BOTH SEXES



APPENDIX A

BIRTHS BY WEIGHT AND ECONOMIC REGION

TABLE A1 BIRTHS BY WEIGHT AND ECONOMIC REGION: 1990 FEMALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	1	0	0	21	1	1	1	25
500- 999	0	0	1	0	32	1	1	1	36
1000-1499	0	0	4	1	38	0	0	1	44
1500-1999	0	0	9	1	81	0	0	3	94
2000-2499	1	3	21	3	255	2	4	13	302
2500-2999	15	31	96	28	936	22	34	89	1,251
3000-3499	71	112	273	88	2,154	59	112	234	3,103
3500-3999	64	119	252	101	1,756	50	90	187	2,619
4000-4499	22	40	82	24	512	15	40	71	806
4500-4999	6	8	5	4	74	6	4	18	125
5000-5499	1	0	1	0	5	0	0	3	10
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	1	0	0	0	1
UNKNOWN	1	0	1	0	5	0	0	2	9
TOTAL	181	314	745	250	5,870	156	286	623	8,425

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

BIRTHS BY ECONOMIC REGION: 1990 FEMALES

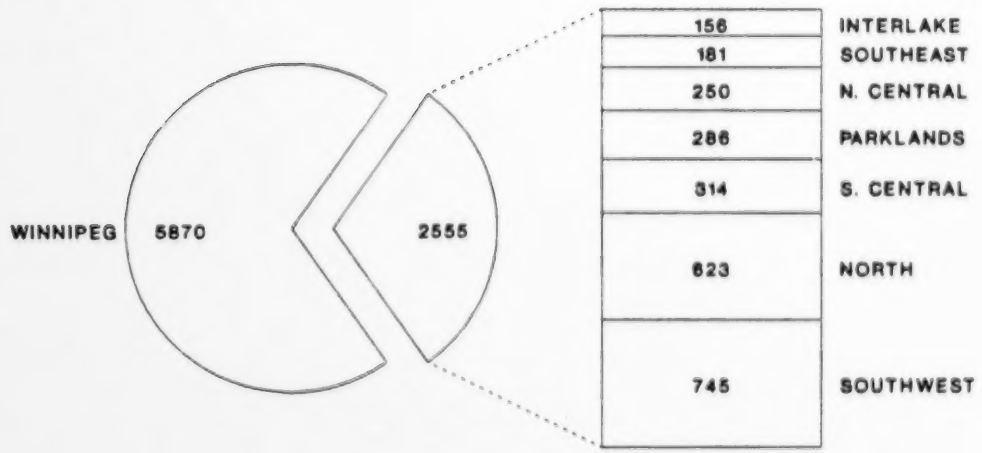


TABLE A2 BIRTHS BY WEIGHT AND ECONOMIC REGION: 1990 MALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	1	3	0	0	35	0	0	1	40
500- 999	0	0	1	0	23	0	1	0	25
1000-1499	0	0	1	1	50	0	2	1	55
1500-1999	0	1	7	2	75	0	2	1	88
2000-2499	2	2	20	1	253	1	3	12	294
2500-2999	15	16	99	11	794	16	26	59	1,036
3000-3499	55	71	240	70	1,999	44	88	173	2,740
3500-3999	67	133	279	70	2,054	71	106	219	2,999
4000-4499	35	65	113	37	845	23	59	104	1,281
4500-4999	11	13	28	6	167	4	15	28	272
5000-5499	2	0	6	0	13	0	2	5	28
5500-5999	0	0	1	0	0	0	0	1	2
6000g OR MORE	0	0	0	0	4	0	0	1	5
UNKNOWN	1	0	0	0	3	0	0	2	6
TOTAL	189	304	795	198	6,315	159	304	607	8,871

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

BIRTHS BY ECONOMIC REGION: 1990 MALES

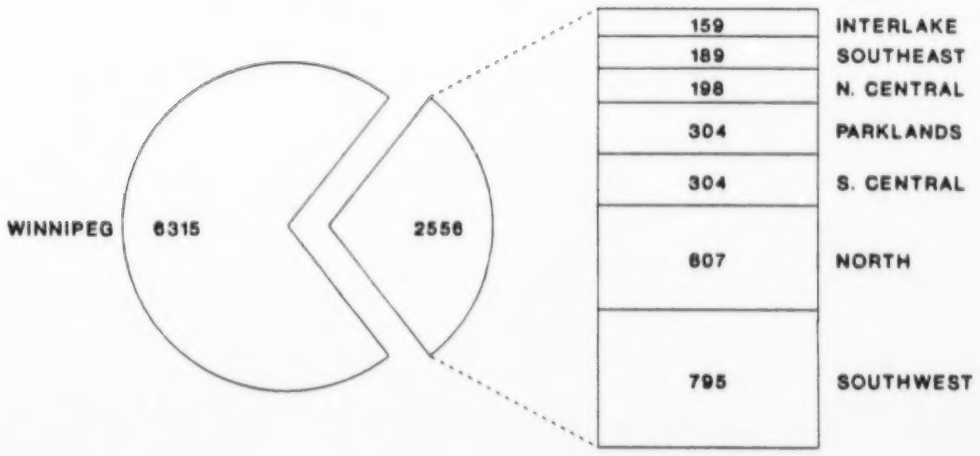


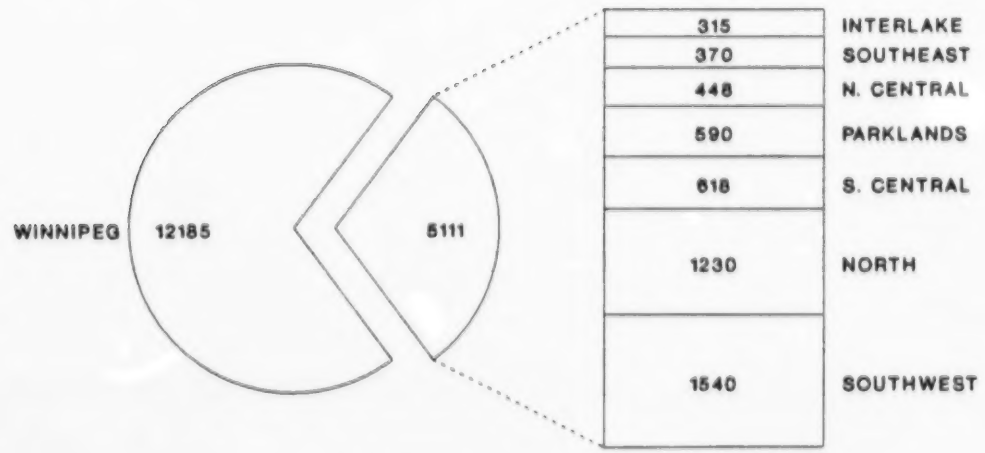
TABLE A3 BIRTHS BY WEIGHT AND ECONOMIC REGION: 1990 BOTH SEXES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	1	4	0	0	56	1	1	2	65
500- 999	0	0	2	0	55	1	2	1	61
1000-1499	0	0	5	2	88	0	2	2	99
1500-1999	0	1	16	3	156	0	2	4	182
2000-2499	3	5	41	4	508	3	7	25	596
2500-2999	30	47	195	39	1,730	38	60	148	2,287
3000-3499	126	183	513	158	4,153	103	200	407	5,843
3500-3999	131	252	531	171	3,810	121	196	406	5,618
4000-4499	57	105	195	61	1,357	38	99	175	2,087
4500-4999	17	21	33	10	241	10	19	46	397
5000-5499	3	0	7	0	18	0	2	8	38
5500-5999	0	0	1	0	0	0	0	1	2
6000g OR MORE	0	0	0	0	5	0	0	1	6
UNKNOWN	2	0	1	0	8	0	0	4	15
TOTAL	370	618	1,540	448	12,185	315	590	1,230	17,296

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

BIRTHS BY ECONOMIC REGION: 1990 BOTH SEXES



APPENDIX B

STILLBIRTHS BY WEIGHT AND ECONOMIC REGION

TABLE B1 STILLBIRTHS BY WEIGHT AND ECONOMIC REGION: 1990 FEMALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	0	0	6	0	0	0	6
500- 999	0	0	1	0	8	1	0	2	12
1000-1499	0	0	1	0	3	0	0	2	6
1500-1999	0	0	1	0	5	0	0	1	7
2000-2499	0	1	0	0	1	0	0	0	2
2500-2999	0	0	1	0	8	0	0	0	9
3000-3499	0	0	1	0	6	0	0	0	7
3500-3999	0	0	0	0	0	0	0	0	0
4000-4499	0	0	1	0	1	0	0	0	2
4500-4999	0	0	0	0	1	0	0	0	1
5000-5499	0	0	0	0	0	0	0	0	0
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	1	0	0	0	1
UNKNOWN	0	0	0	0	2	0	0	0	2
TOTAL	0	1	6	0	42	1	0	5	55

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

STILLBIRTHS BY ECONOMIC REGION: 1990 FEMALES

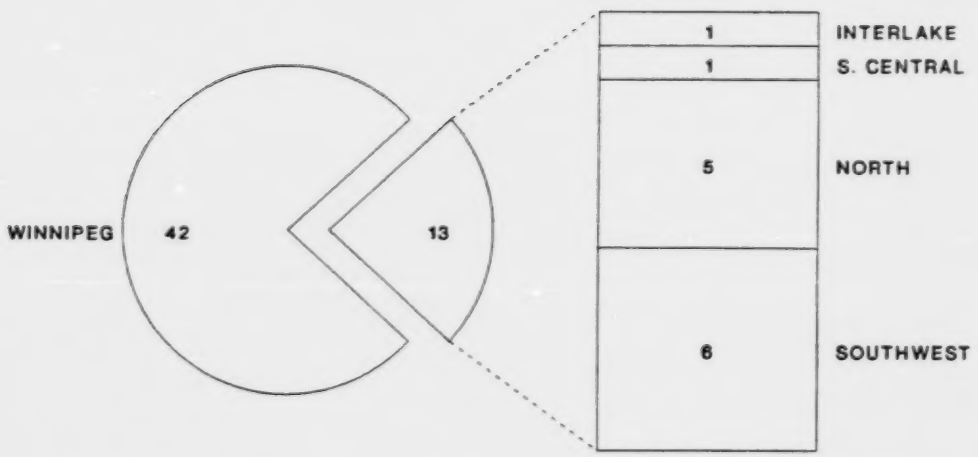


TABLE B2 STILLBIRTHS BY WEIGHT AND ECONOMIC REGION: 1990 MALES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	2	1	8	0	1	0	12
500- 999	0	0	1	1	9	0	0	3	14
1000-1499	0	0	1	0	5	0	0	1	7
1500-1999	0	0	0	0	3	1	0	0	4
2000-2499	0	0	0	1	2	1	0	0	4
2500-2999	0	0	1	0	1	0	0	0	2
3000-3499	0	0	1	0	6	0	0	0	7
3500-3999	0	0	2	0	3	0	0	0	5
4000-4499	0	0	0	0	1	0	0	0	1
4500-4999	0	0	0	0	0	0	0	0	0
5000-5499	0	1	0	0	1	0	0	0	2
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0
TOTAL	0	1	8	3	39	2	1	4	58

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

STILLBIRTHS BY ECONOMIC REGION: 1990 MALES

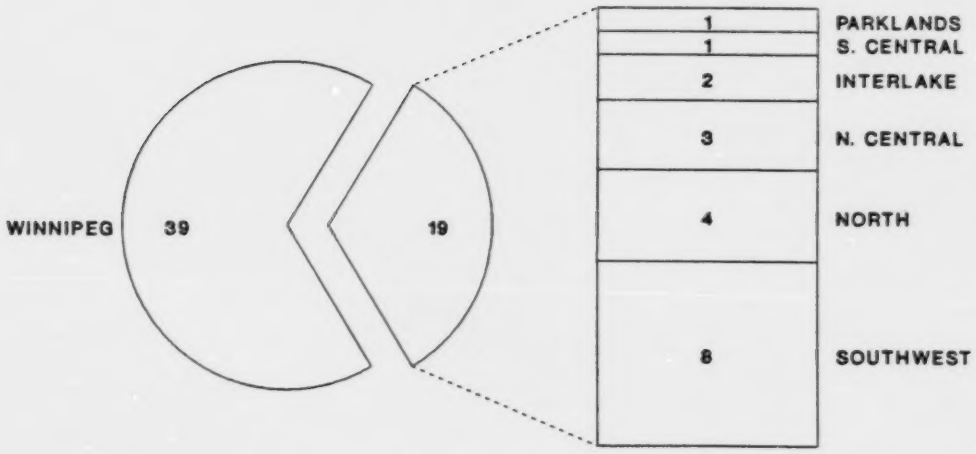


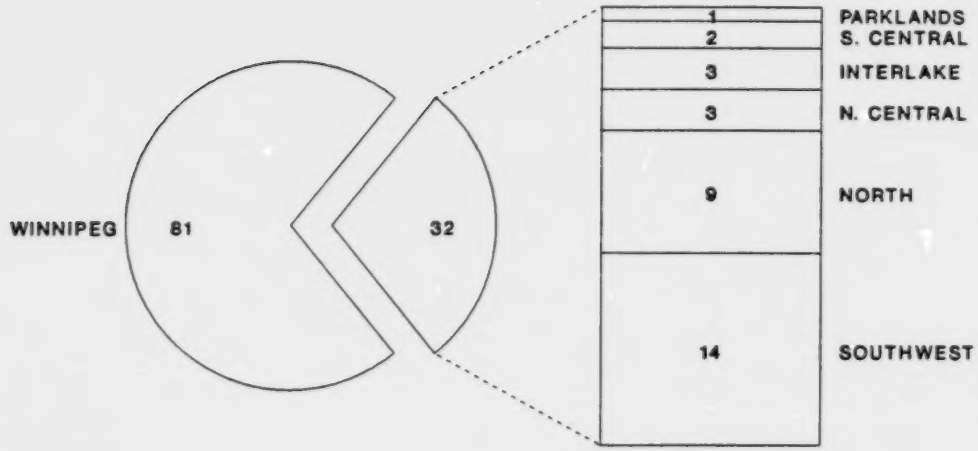
TABLE B3 STILLBIRTHS BY WEIGHT AND ECONOMIC REGION: 1990 BOTH SEXES

WEIGHT	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 500g	0	0	2	1	14	0	1	0	18
500- 999	0	0	2	1	17	1	0	5	26
1000-1499	0	0	2	0	8	0	0	3	13
1500-1999	0	0	1	0	8	1	0	1	11
2000-2499	0	1	0	1	3	1	0	0	6
2500-2999	0	0	2	0	9	0	0	0	11
3000-3499	0	0	2	0	12	0	0	0	14
3500-3999	0	0	2	0	3	0	0	0	5
4000-4499	0	0	1	0	2	0	0	0	3
4500-4999	0	0	0	0	1	0	0	0	1
5000-5499	0	1	0	0	1	0	0	0	2
5500-5999	0	0	0	0	0	0	0	0	0
6000g OR MORE	0	0	0	0	1	0	0	0	1
UNKNOWN	0	0	0	0	2	0	0	0	2
TOTAL	0	2	14	3	81	3	1	9	113

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

STILLBIRTHS BY ECONOMIC REGION: 1990 BOTH SEXES



APPENDIX C

DEATHS BY AGE GROUP AND ECONOMIC REGION

TABLE C1 DEATHS BY AGE GROUP AND ECONOMIC REGION: 1990 FEMALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	0	3	1	1	47	1	2	4	59
1- 4 YEARS	0	1	0	0	8	0	2	3	14
5- 9	0	0	2	0	9	0	0	1	12
10-14	0	0	0	0	0	2	0	0	2
15-19	0	1	1	0	6	1	1	2	12
20-24	0	2	1	0	5	1	2	3	14
25-29	2	0	2	0	26	1	1	0	32
30-34	1	1	0	0	19	0	2	4	27
35-39	1	1	2	0	28	1	1	1	35
40-44	0	1	3	1	28	4	0	2	39
45-49	4	1	7	4	54	3	1	4	78
50-54	5	2	9	2	67	8	4	5	102
55-59	7	2	10	5	83	4	14	5	130
60-64	13	6	20	5	132	14	10	4	204
65-69	11	13	31	18	224	12	15	8	332
70-74	15	13	55	17	276	24	19	9	428
75-79	20	28	62	14	400	36	32	10	602
80-84	32	46	87	18	436	42	38	17	716
85-89	34	49	97	20	368	40	40	6	654
90 AND OVER	21	43	101	24	368	54	38	13	662
TOTAL	166	213	491	129	2,584	248	222	101	4,154

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

DEATHS BY ECONOMIC REGION: 1990 FEMALES

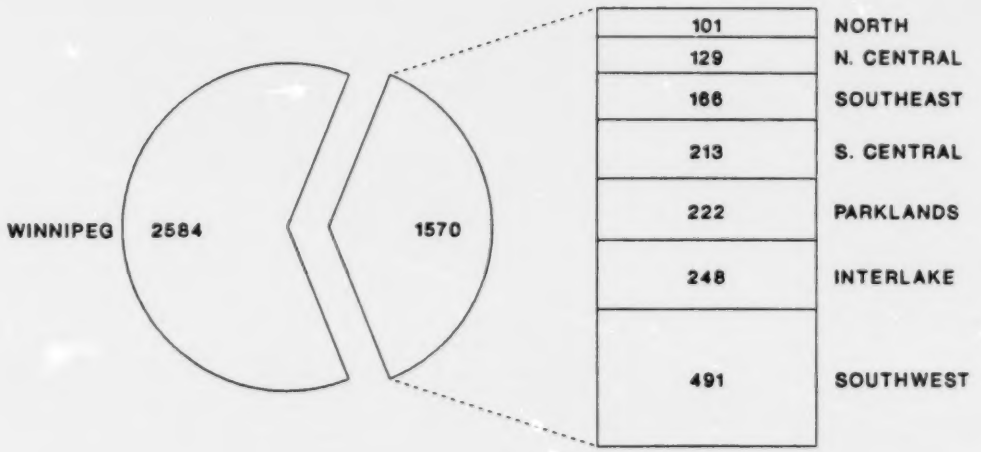


TABLE C2 DEATHS BY AGE GROUP AND ECONOMIC REGION: 1990 MALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	2	1	6	0	66	2	1	4	82
1- 4 YEARS	2	0	5	0	7	0	1	5	20
5- 9	0	0	1	0	3	0	1	3	8
10-14	0	1	1	1	5	0	1	1	10
15-19	1	6	4	1	19	2	1	5	39
20-24	3	1	2	2	25	2	0	9	44
25-29	5	2	6	4	31	2	2	8	60
30-34	7	1	5	0	34	3	3	7	60
35-39	4	1	4	2	50	2	5	6	74
40-44	4	4	5	2	41	1	2	7	66
45-49	3	4	5	1	56	5	5	8	87
50-54	4	4	17	3	80	7	3	5	123
55-59	11	10	22	4	152	16	11	14	240
60-64	17	14	44	11	208	18	22	16	350
65-69	29	27	56	19	323	33	26	22	535
70-74	24	31	70	25	378	40	40	17	625
75-79	28	43	87	24	452	52	48	19	753
80-84	39	44	104	16	366	39	57	25	690
85-89	26	31	83	19	265	37	34	14	509
90 AND OVER	20	30	35	16	169	23	23	6	322
TOTAL	229	255	562	150	2,730	284	286	201	4,697

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

DEATHS BY ECONOMIC REGION: 1990 MALES

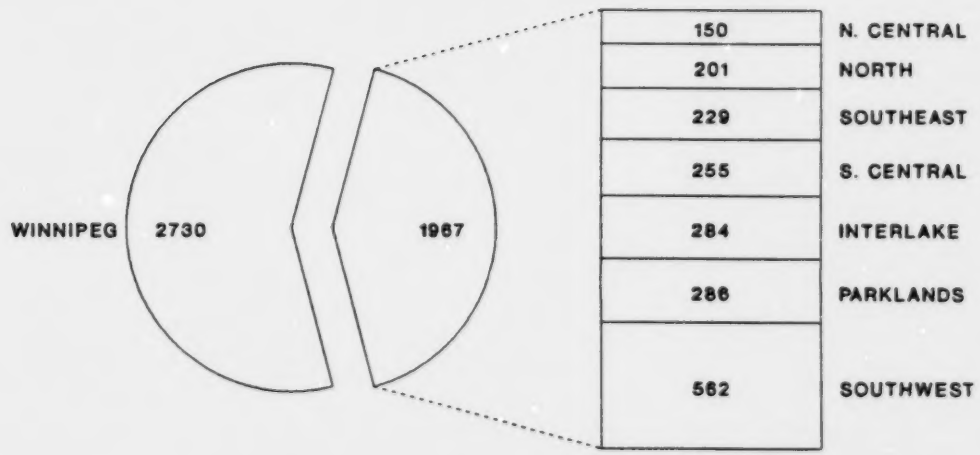


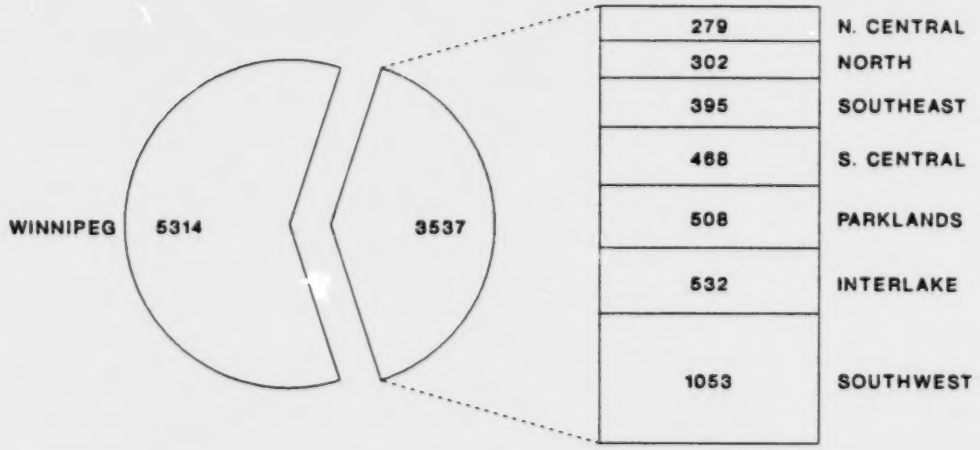
TABLE C3 DEATHS BY AGE GROUP AND ECONOMIC REGION: 1990 BOTH SEXES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 YEAR	2	4	7	1	113	3	3	8	141
1- 4 YEARS	2	1	5	0	15	0	3	8	34
5- 9	0	0	3	0	12	0	1	4	20
10-14	0	1	1	1	5	2	1	1	12
15-19	1	7	5	1	25	3	2	7	51
20-24	3	3	3	2	30	3	2	12	58
25-29	7	2	8	4	57	3	3	8	92
30-34	8	2	5	0	53	3	5	11	87
35-39	5	2	6	2	78	3	6	7	109
40-44	4	5	8	3	69	5	2	9	105
45-49	7	5	12	5	110	8	6	12	165
50-54	9	6	26	5	147	15	7	10	225
55-59	18	12	32	9	235	20	25	19	370
60-64	30	20	64	16	340	32	32	20	554
65-69	40	40	87	37	547	45	41	30	867
70-74	39	44	125	42	654	64	59	26	1,053
75-79	48	71	149	38	852	88	80	29	1,355
80-84	71	90	191	34	802	81	95	42	1,406
85-89	60	80	180	39	633	77	74	20	1,163
90 AND OVER	41	73	136	40	537	77	61	19	984
TOTAL	395	468	1,053	279	5,314	532	508	302	8,851

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

DEATHS BY ECONOMIC REGION: 1990 BOTH SEXES



APPENDIX D

INFANT DEATHS BY AGE AND ECONOMIC REGION

TABLE D1 INFANT DEATHS BY AGE AND ECONOMIC REGION: 1990 FEMALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	0	0	0	0	20	0	2	0	22
1 - 6 DAYS	0	0	0	0	9	0	0	0	9
7 - 13 DAYS	0	0	0	0	2	0	0	0	2
14 - 27 DAYS	0	0	1	0	0	0	0	0	1
28 - 91 DAYS	0	2	0	0	5	1	0	1	9
92 DAYS - 6 MONTHS	0	0	0	0	7	0	0	1	8
6 MONTHS - 1 YEAR	0	1	0	1	4	0	0	2	8
INFANT	0	3	1	1	47	1	2	4	59
NEONATAL	0	0	1	0	31	0	2	0	34
POST-NEONATAL	0	3	0	1	16	1	0	4	25
STILLBIRTHS	0	1	6	0	42	1	0	5	55
PERINATAL	0	1	6	0	71	1	2	5	86

NOTE: INFANT IS A DEATH UNDER 1 YEAR OF AGE.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

INFANT DEATHS BY ECONOMIC REGION: 1990 FEMALES

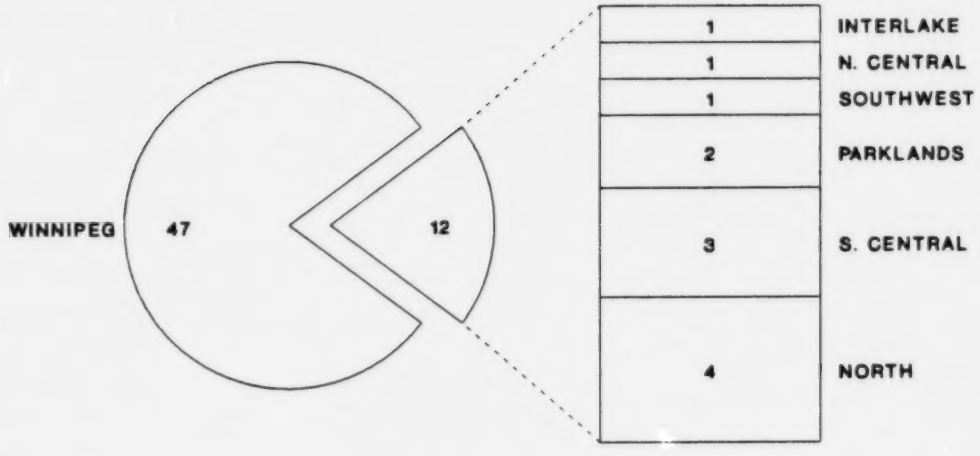


TABLE D2 INFANT DEATHS BY AGE AND ECONOMIC REGION: 1990 MALES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	0	0	2	0	20	0	0	0	22
1 - 6 DAYS	0	0	0	0	19	0	0	0	19
7 - 13 DAYS	0	1	1	0	2	0	0	0	4
14 - 27 DAYS	0	0	2	0	4	1	0	0	7
28 - 91 DAYS	0	0	1	0	8	0	0	2	11
92 DAYS - 6 MONTHS	1	0	0	0	9	1	1	1	13
6 MONTHS - 1 YEAR	1	0	0	0	4	0	0	1	6
INFANT	2	1	6	0	66	2	1	4	82
NEONATAL	0	1	5	0	45	1	0	0	52
POST-NEONATAL	2	0	1	0	21	1	1	4	30
STILLBIRTHS	0	1	8	3	39	2	1	4	58
PERINATAL	0	1	10	3	78	2	1	4	99

NOTE: INFANT IS A DEATH UNDER 1 YEAR OF AGE.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

INFANT DEATHS BY ECONOMIC REGION: 1990 MALES

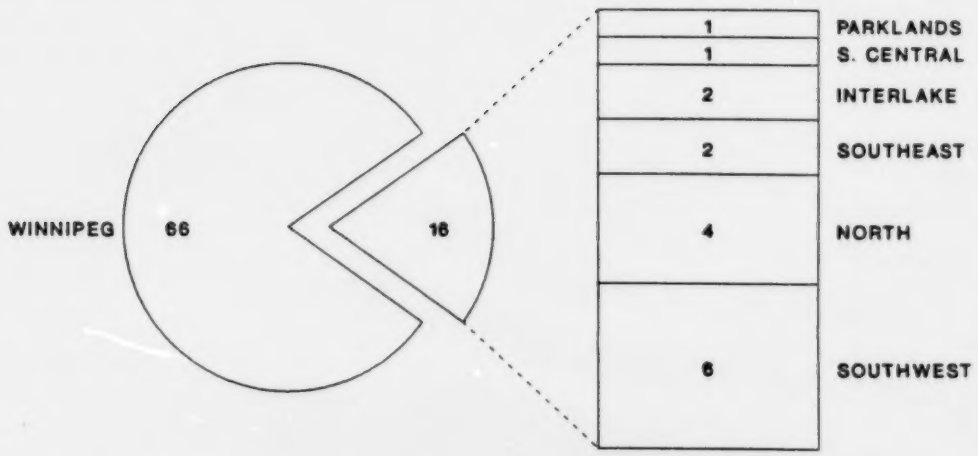


TABLE D3 INFANT DEATHS BY AGE AND ECONOMIC REGION: 1990 BOTH SEXES

AGE	SOUTH EAST	SOUTH CENTRAL	SOUTH WEST	NORTH CENTRAL	WINNIPEG	INTERLAKE	PARKLANDS	NORTH	MANITOBA
UNDER 1 DAY	0	0	2	0	40	0	2	0	44
1 - 6 DAYS	0	0	0	0	28	0	0	0	28
7 - 13 DAYS	0	1	1	0	4	0	0	0	6
14 - 27 DAYS	0	0	3	0	4	1	0	0	8
28 - 91 DAYS	0	2	1	0	13	1	0	3	20
92 DAYS - 6 MONTHS	1	0	0	0	16	1	1	2	21
6 MONTHS - 1 YEAR	1	1	0	1	8	0	0	3	14
INFANT	2	4	7	1	113	3	3	8	141
NEONATAL	0	1	6	0	76	1	2	0	86
POST-NEONATAL	2	3	1	1	37	2	1	8	55
STILLBIRTHS	0	2	14	3	81	3	1	9	113
PERINATAL	0	2	16	3	149	3	3	9	185

NOTE: INFANT IS A DEATH UNDER 1 YEAR OF AGE.
NEONATAL IS A DEATH UNDER 28 DAYS OF AGE, EXCLUDING STILLBIRTHS.
POST-NEONATAL IS AN INFANT DEATH AT 28 DAYS OF AGE OR OVER.
PERINATAL IS A DEATH AT LESS THAN 7 DAYS OF AGE OR A STILLBIRTH.

DATA SOURCE: OFFICE OF VITAL STATISTICS, DEPARTMENT OF FAMILY SERVICES

MANITOBA BUREAU OF STATISTICS JUNE, 1991

INFANT DEATHS BY ECONOMIC REGION: 1990 BOTH SEXES